

Figure 1 Schematic of the Present Invention's Architecture

Tow

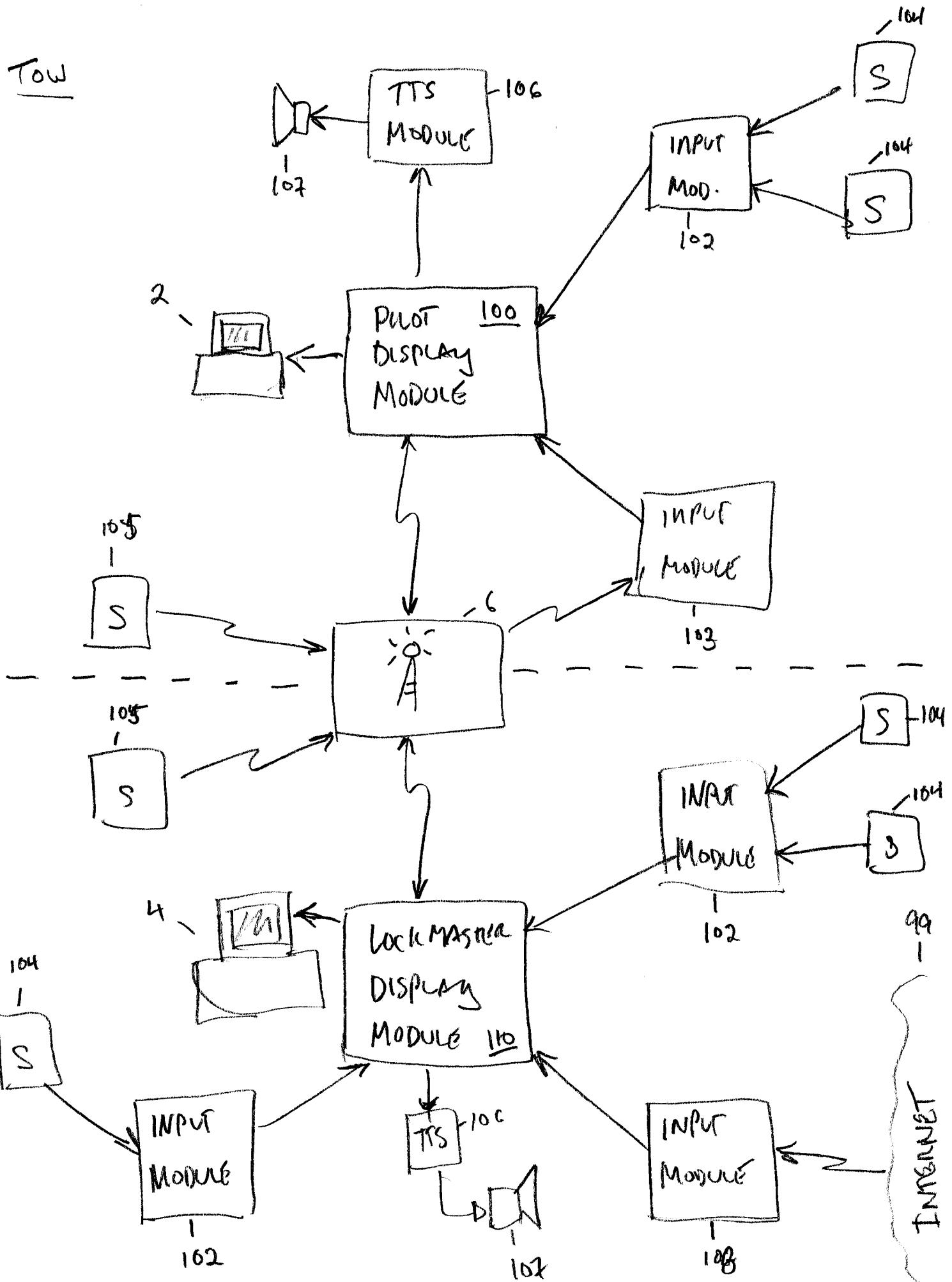


FIG. 2.

Lock

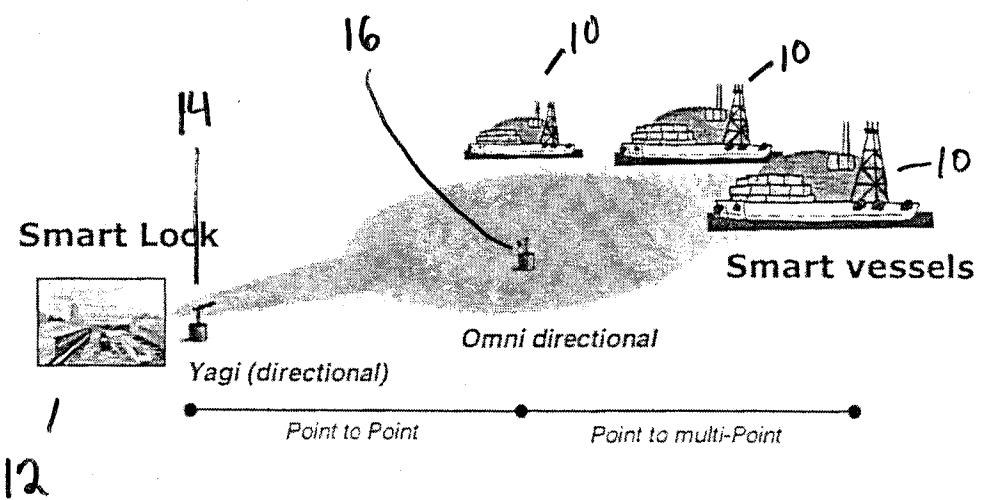
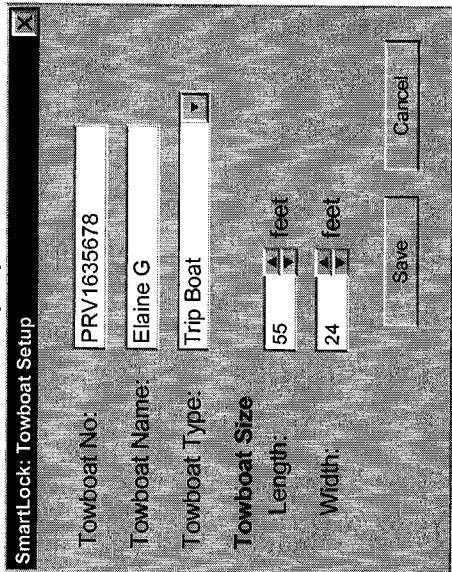


Figure 7-2. SmartLock System Network Topology

Fig. 3

(20)



SmartLock: Towboat Setup

Towboat No: PRV1635678

Towboat Name: Elaine G

Towboat Type: Trip Boat

Towboat Size

Length:	55	feet
Width:	24	feet

The dialog box is titled "SmartLock: Towboat Setup". It contains fields for "Towboat No" (PRV1635678), "Towboat Name" (Elaine G), and "Towboat Type" (Trip Boat). Below these, a section titled "Towboat Size" contains two rows of input fields. The first row for "Length" has a value of "55" and a "feet" unit. The second row for "Width" has a value of "24" and a "feet" unit. At the bottom are "Save" and "Cancel" buttons.

Figure 4 Towboat Setup

(22)

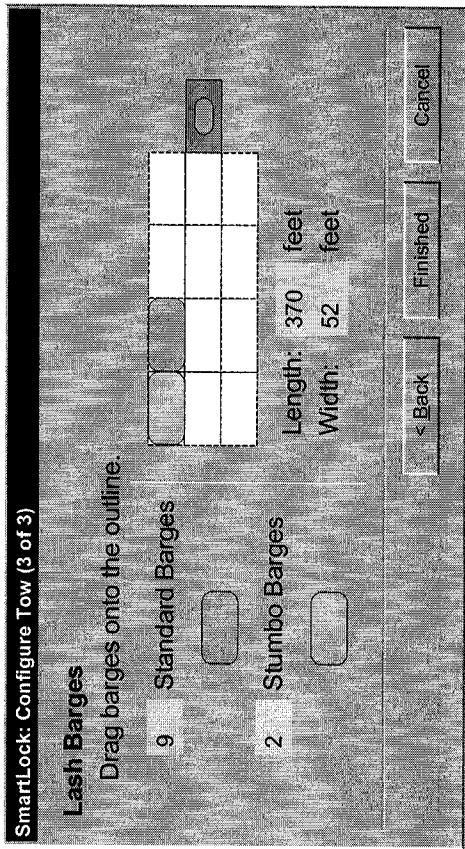


Figure 5 Configure Tow

(24)

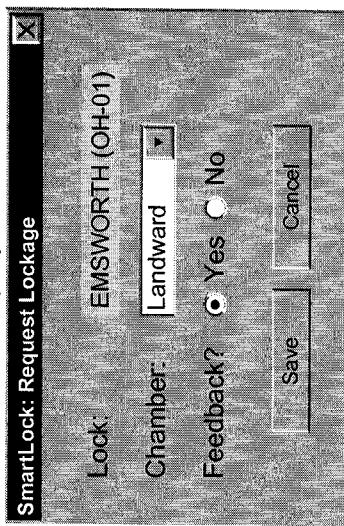


Figure 6 Request Lockage

(26)

SmartLock: Lock Conditions

Dam Opening: 10  feet

Upstream River Current

Direction: In Out 

Strength: Weak

Downstream River Current

Direction: In Out 

Strength: Weak

Wind

Direction: North 

Strength: Weak 

Figure 7 Update Lock Conditions

(30)

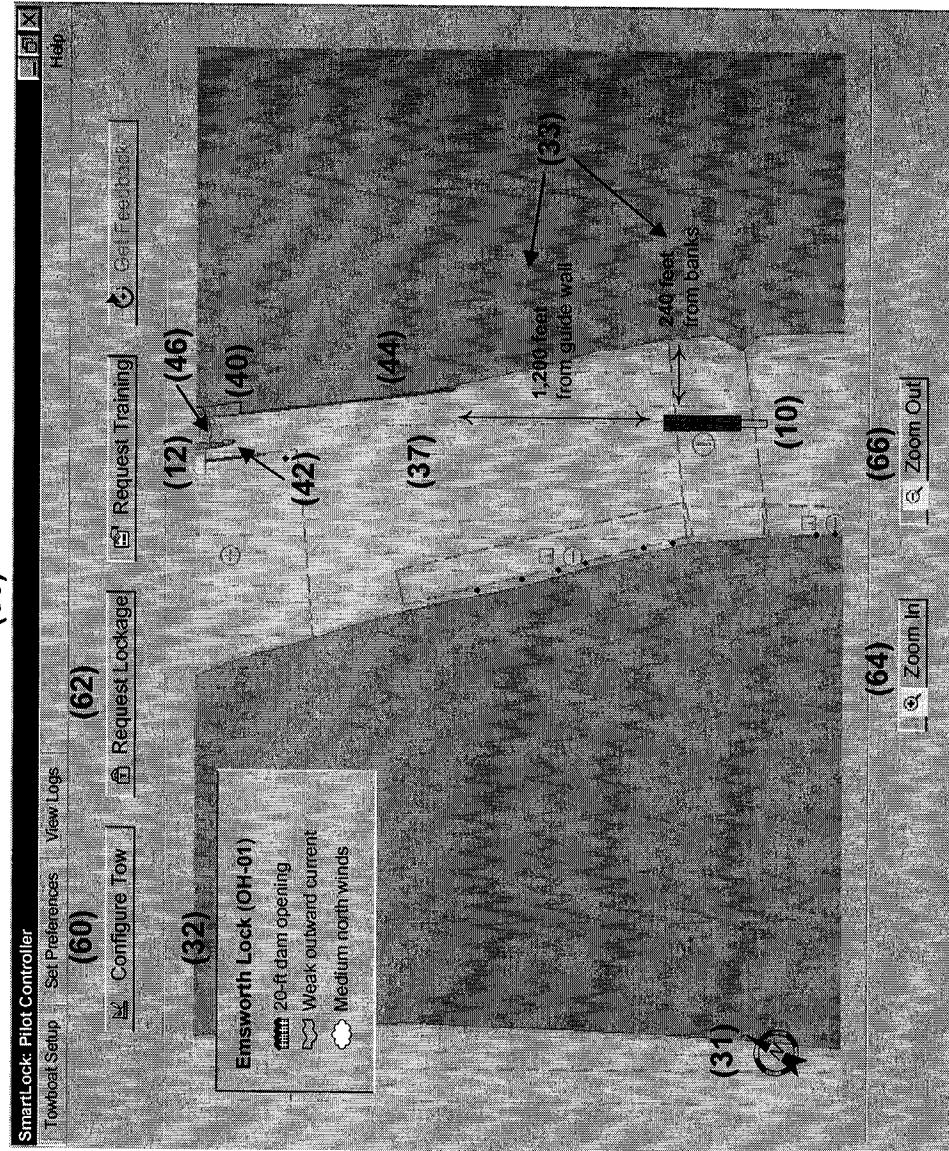


Figure 8 Pilot Display for Tow Approaching the Lock

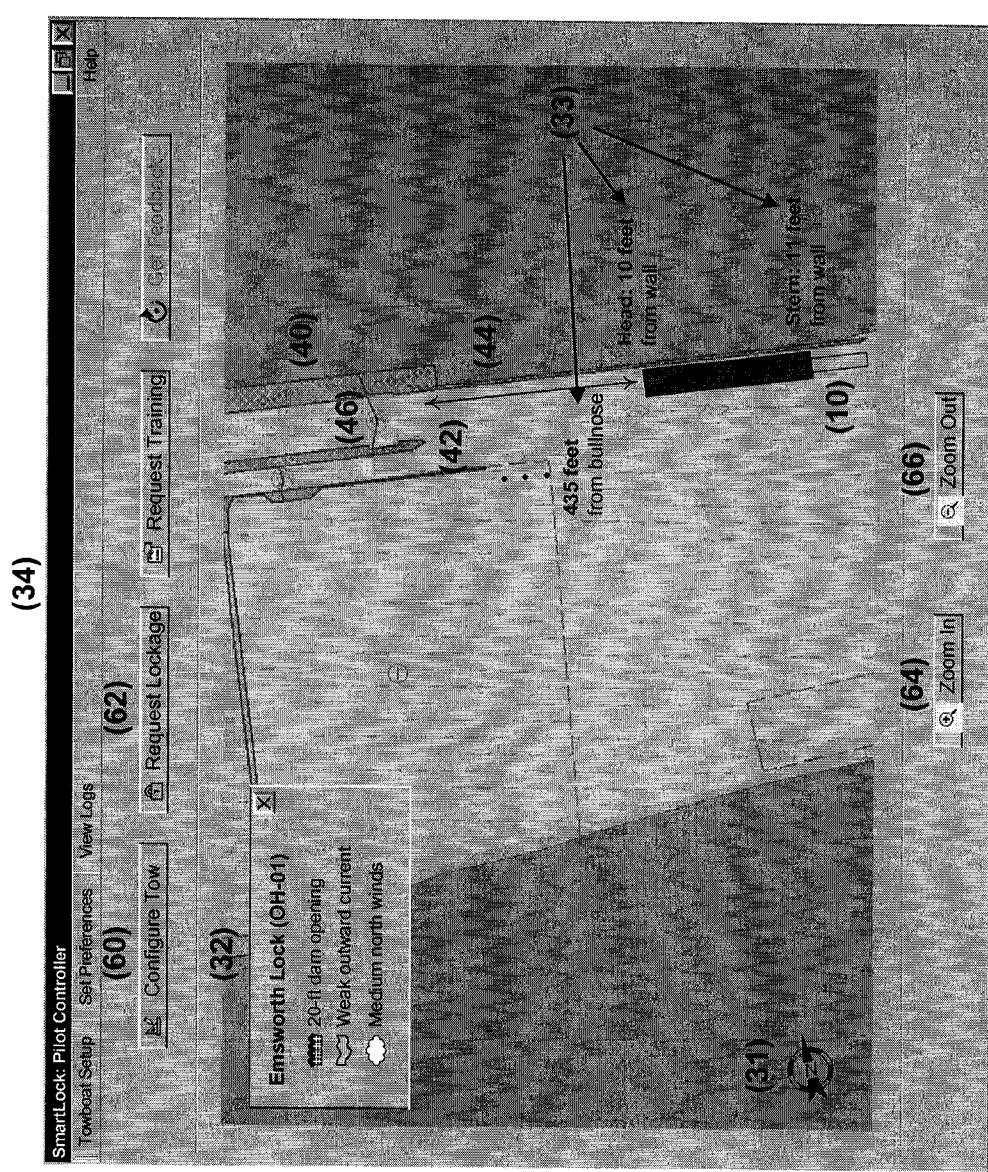


Figure 9 Pilot Display for Tow at the Lock

(34)

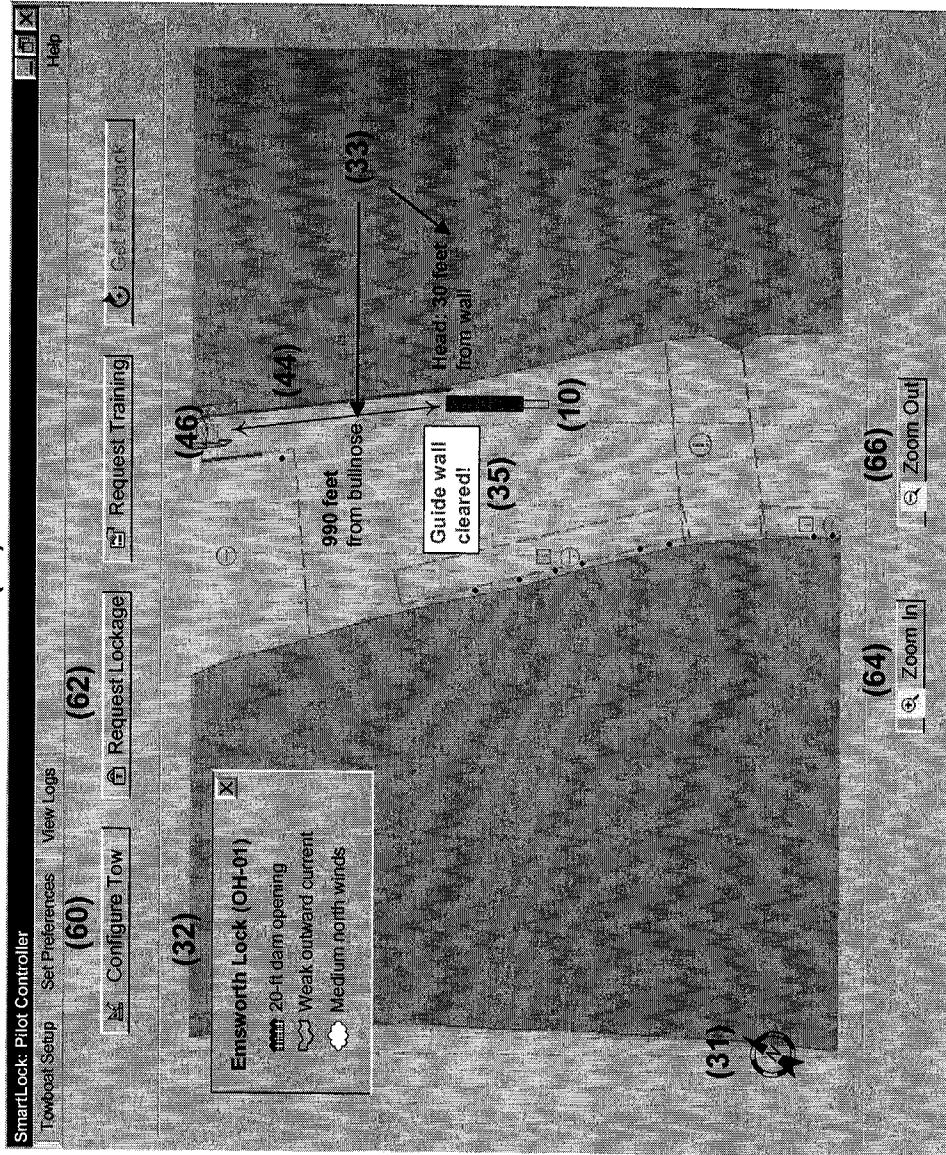


Figure 10 Pilot Display with Sample Alert

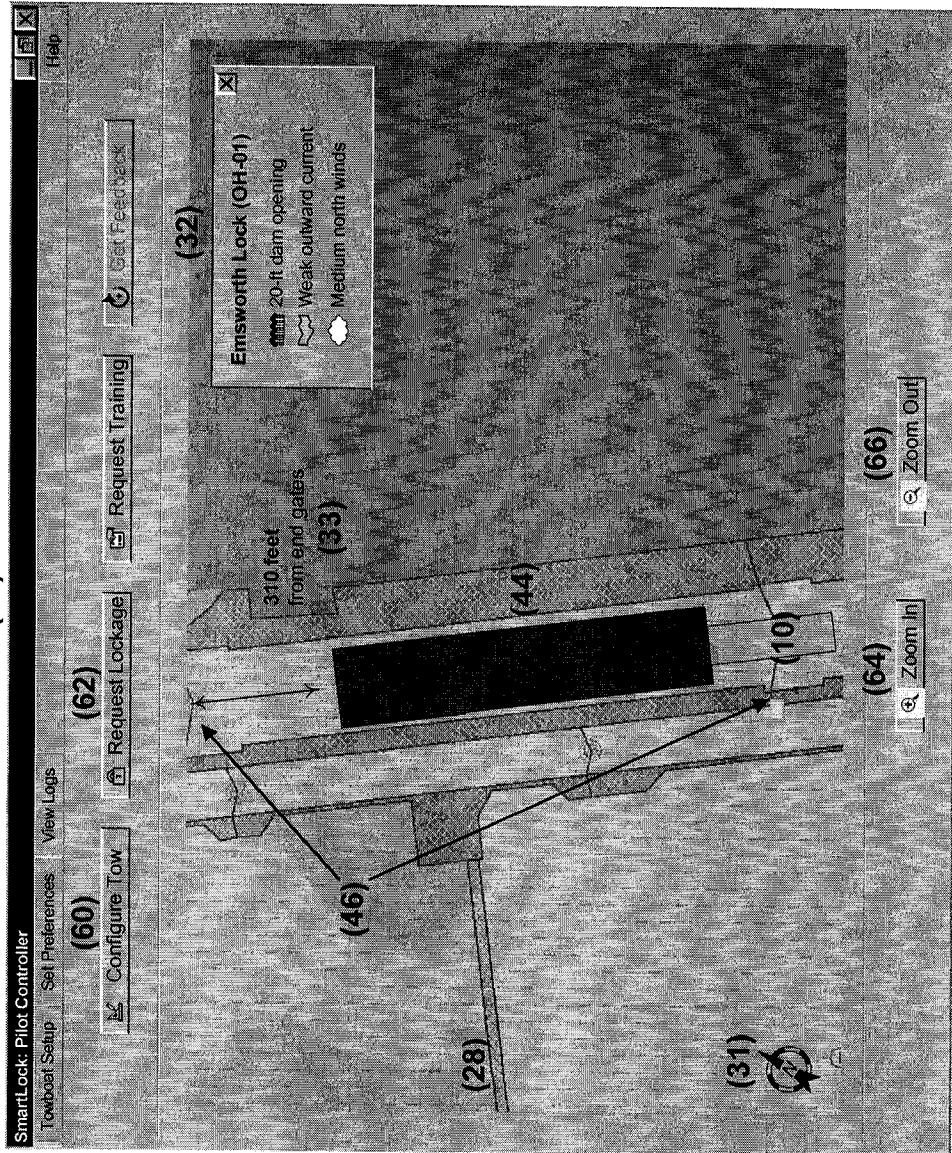


Figure 11 Pilot Display with Tow Inside the Lock

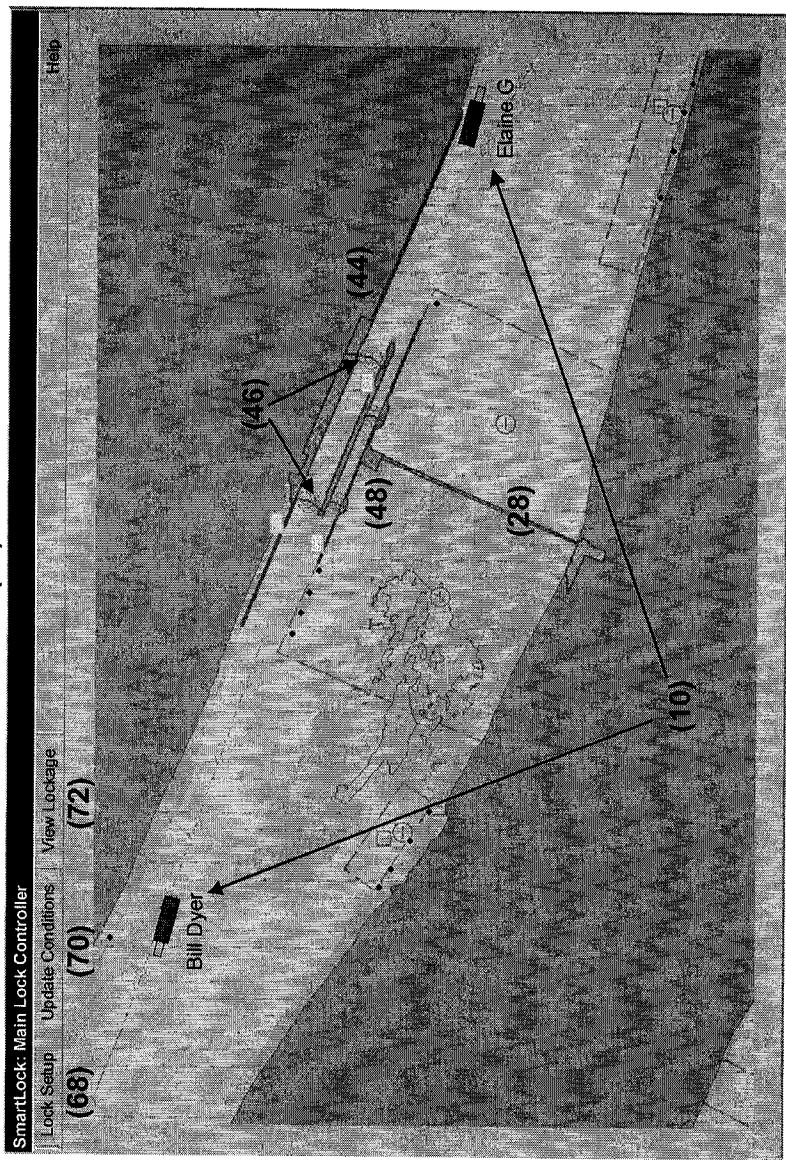


Figure 12 Lockmaster Display

